

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington D.C. 20221

SERIAL NUMBER FILING DATE FIRST NAMED INVENTOR	LATTORUTY DO DO TO
PINOT ROMED INVENTOR	ATTORNEY DOCKET NO.
08/406,226 03/17/95 WEBER R	TI-19646
	EXAMINER
34M2/1122 ————	
RENE E GROSSMAN ARTUNIT	PAPER NUMBER
TEXAS INSTRUMENTS INCORPORATED	4
P O BOX 655474 MS 219 3407	/
DALLAS TX 75265 DATE MAILED:	•
This is a communication from the examiner in charge of your application.	11/22/95
COMMISSIONER OF PATENTS AND TRADEMARKS	
This application has been examined Responsive to communication filed on 8/3//95	This action is made final.
A shortened statutory period for response to this action is set to expire month(s), days from	om the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133	
Part 1 THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:	
1. Notice of References Cited by Examiner, PTO-892.	tent Drawing Review, PTO-948.
3. Notice of Art Cited by Applicant, PTO-1449.	
5. Information on How to Effect Drawing Changes, PTO-1474.	
Part II SUMMARY OF ACTION	
1. 🖂 Claims 1-20	
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Of the above, claims	withdrawn from consideration.
2. Ctaims	have been cancelled.
3. Claims	are allowed.
4. 🖳 1–12	
5. Claims	
6. Claims are subject to restriction	
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.	
	nation purposes.
8. Formal drawings are required in response to this Office action.	
 The corrected or substitute drawings have been received on Under 37 C. are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PT 	F.R. 1.84 these drawings O-948).
10. The proposed additional or substitute sheet(s) of drawings, filed on has (have) been I	Tannroved by the
examiner; disapproved by the examiner (see explanation).	approved by the
11. The proposed drawing correction, filed has been approved; approved (see explanation).	
12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been red been filled in parent application, serial no; filed on	ceived not been received
13. Since this application apppears to be in condition for allowance except for formal matters, prosecution as to t accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	he merits is closed in
14. Other	

EXAMINER'S ACTION

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Response to Election

Applicant's election without traverse of species A as illustrated in Figure 1 in Paper No. 3 filed August 31, 1995 is acknowledged.

Claims 13-20 are withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b) as being drawn to a nonelected species. Election was made without traverse in Paper No. 3.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 3 and 5 are rejected under 35 U.S.C. § 102(a) as being anticipated by Lebailly et al. The patent of Lebailly et al., in Figures 1-3, in column 2, lines 35-48 and in column 4, lines 3-10, discloses a phase change liquid and an aluminum porous material (5) located within a cavity formed by thermally conductive metal plates (1,2). The remaining limitations are considered to be clearly met.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 2, 4 and 6-12 are rejected under 35 U.S.C. § 103 as being unpatentable over Lebailly et al. in view of Alspaugh. The patent of Lebailly et al. discloses all the claimed features of the invention with the exception of a solid to liquid phase change material and the porous material homogeneously disposed within the cavity. The patent of Alspaugh, in Figure 1, in column 2, lines 37-40 and in column 4, lines 17-22, discloses a solid to liquid phase change medium (14) and aluminum filaments (16) being homogeneously mixed for the purpose of obtaining a highly conductive heat storage or removal device. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Lebailly et al. a solid to liquid phase change medium and aluminum filaments being

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homogeneously mixed for the purpose of obtaining a highly conductive heat storage or removal device as disclosed in Alspaugh.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Atkinson whose telephone number is (703) 308-2603 (FAX (703) 305-3463/3464).

C.A. c.A.

November 6, 1995

PRIMARY EXAMINER
ART UNIT 347

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